

Wyoming Energy Authority Thoughts

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- Prepared by
- Bryan Hassler
- Executive Director Wyoming Pipeline Authority

Wyoming's Energy Resources – Take a Functional Approach

UPSTREAM

- Conventional Oil & Gas
- Oil Shale (PRB, Niobrara)
- Oil Sands (not competitive with Canada)
- Uranium (limited by foreign sources)
- Wind (limited by transmission)
- Hydro
- Solar
- Biomass (trash, sewage recovery)
- Helium (by-product of production)
- CO2 (by-product of production but utilized in EOR)

MIDSTREAM/DOWNSTREAM

- Pipelines (Oil, Gas, NGL's)
- Electric Transmission
- Refining
- Manufacturing
- Electric Generation
 - Coal
 - Natural Gas
 - Wind
 - Hydro
 - Solar
 - Battery
- Rail
- Utility
- Integrated Test Center
- Other

EXTRINSIC VALUE ADD

- Data
 - WPA
 - WIA
 - EORI
 - WOGCC
 - University
 - School of Energy Resources
 - Geologic Association
 - DEQ
- Expertise
 - Mapping
 - Data Integrity
 - Big Data
 - Data Mapping
 - FERC
 - Policy champions
 - Board expertise
 - Business Development
 - Financing
 - Peer to peer linkage

Energy Resource Score Card

- Coal
- Oil Shale
- Natural Gas
- Wind
- Uranium
- Data

- Carbon initiatives
- Powder + export capacity
- More competitive resources
- State transmission constraints
- - - International competition

 - Hints that key data from some agencies crumbling

Observations

Envision an expanded role in promoting energy in Wyoming and outside of Wyoming

Data and Data Integrity is key

Assure existing staff that their jobs are secure

Consider Expanding Budget

Look at Competing States

Focus on areas aligned with Legislature and Governor

Consider Expanding Staff

Anticipate market disruptions and technology disruptions as well as external state factors affecting consumption

Consider merging Boards of WPA and WIA

Consider Impediments to Development

Regulatory

Data

Economic (competition for capital with other regions)

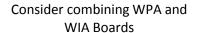
Transmission (Constraints plus shifting supply/market dynamics)

Pipeline (shifting supply/market dynamics)

Externalities – what are other states doing and how does that impact Wyoming

WEA Success Depends Upon Vision & Execution







Define ideal Executive – Education, work history, familiarity with Wyoming, market prowess



Define strategic objectives



Build business plan



Build Budget



Employee input & retention

Advance a Plan That
Advances State's
Energy Resources
Collaboratively
Across State
Agencies

Anshutz – Power Company of Wyoming



\$406.3 million in property taxes



\$232.4 million in sales and use taxes



\$207.8 million in wind generation taxes



\$846.5 million in potential impact if transmission can be figured out

Jordan Cove LNG Export Terminal



\$10 billion project



West market for Wyoming gas



Export to Asian markets



Still has no final permits



Just cut spending by \$50 million this year and waiting on permits before issuing final investment decision



May be undercut by project in British Colombia

Colorado Energy Office

Staff		Transportation Fuels & Technology	
Executive Team		Christian Williss, Director	303-866-2386
Will Toor, Executive Director	303-866-2202	Zach Owens, Program Manager	303-866-3279
Andrew Sand, Deputy Director	303-866-2206	Maria Eisemann, Policy Analyst	303-866-2204
Public Affairs*		Addison Phillips, Associate	303-866-2127
Keith Hay, Director of Utility Policy	303-866-2614	Operations	
Heatheryn Higgins, Public Information Officer & Content Director	303-866-6585	Gregg Hefner, Director of Accounting & Budget	303-866-2601
Lindsey Stegall, Manager, Policy & Regulatory Affairs	303-866-2594	PJ Johnson, Budget Analyst	303-866-3964
Jocelyn Durkay, Policy Analyst	303-866-2791	Anthony Pollard, Accountant	303-866-2309
Residential Energy Services		Eric Lowe, Sr. Data Analyst	303-866-2064
Ryan Harry, Sr. Program Manager	303-866-2262	Chi.Nguyen, Sr. IT Professional [Governor's Office]	303-866-2185
Ryan Manzik, Sr. Program Manager	303-866-6472	Nancey Steinheimer, Executive Assistant & Office Manager	303-866-2462
Jacob Wolff, Quality Assurance Manager	303-866-2264	Sara Graf, Procurement Director [Governor's Office]	303-866-2326
Andy Cordova, Sr. Technical & Training Manager	303-866-2497		
Zac Stewart, Technical & Training Specialist	303-866-2084		
Kim Burke, Sr. Program Manager	303-866-2343		
Jeffrey King, Program Manager	303-866-2259		
Commercial & Industrial Energy Services			
Michael Turner, Director	303-866-6665		
Mirka della Cava, Sr. Program Manager	303-866-3464		
<u>Taylor Lewis</u> , Program Engineer	303-866-2483		
Anna Kelly, Associate Program Manager	303-866-5917		
Wil Mannes, Program Associate [Temp]	303-866-2418		
DeLynne Southern, Technical Specialist	303-866-2391		

Utah Energy Office

Executive Staff

Dr. Laura Nelson

Executive Director (801) 538-8732

Rob Simmons

Deputy Director (801) 538-8658

Trena Sligting

Executive Assistant (801) 538-8732

Communications, Finance, and Data

Meghan Stettler

Director of Public Affairs & Communications 801-499-0781

Michele Pasker

Finance Manager (801) 538-8727

Richard Bell

Energy Policy Analyst (801) 538-8682

Brooke Tucker

Senior Project Manager 385-549-0822

Energy Development

Kevin Brooks

Education & Energy Program Specialist 801-538-8725

Jordan Clark

Managing Director of Energy & Minerals Development (801) 538-8653

Shawna Cuan

Managing Director of Energy Efficiency & Renewable Energy (385) 235-4580

Alair Emory

Advanced Energy Systems Manager 801-538-8661

Bergen Eskildsen

Rural Program Specialist 801-538-8718

Alicia Ryans

Energy and Infrastructure Incentives Specialist 801-538-8729

Annie Schneider

Emergency Management and Transportation Programs Specialist 801-538-8734